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## CASE STUDY: BOGOTÁ

Bogotá is in constant growth both spatially and in term of its population, the question we must ask is: is it growing in a correct way?



• High population density

6-11 May 2018, İstanbul

- High Mixture of Land Use
- 20%  $\rightarrow$  Illegal origin
- 2004's "POT"

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esri



Spatial Decision Support System (SDSS) for urban and regional planning applications

Inputs	2006's Land Uses
	Aptitude
	Zoning
	Infrastructure
	Accessibility
	Neighborhood curves

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### METHODOLOGY AND PRACTICAL APPLICATION







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Spatial Decision Support System (SDSS) for urban and regional planning applications Inputs 2006's Land Uses

Aptitude

Zoning → "**POT**"

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Infrastructure

Accessibility

Neighborhood curves



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Real Land Use of 2016



Simulated Land Use of 2016





FIG 2018

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ANALYSIS AND RESULTS

Real Land Use of 2016



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Simulated Land Use of 2016





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### ANALYSIS AND RESULTS

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Available

Residential

low stratum

Residential

medium

stratum

Residential

high stratum

Industrial

Commercial

Mix

Parks y clubs

Water bodies

Services

Dotacional

Airport tracks

Lanes

Landfill

Mining

Avarage Aptitude per Land Use







Occupied Area per Land Use





## CONCLUSIONS AND RECOMMENDATIONS

- Residential use area is increasing more than the other uses, and people is settling down into high hazard areas.
- It is expected that with the new version of the POT, the distribution of exposure decreases, or at least kepts at the same level trough time
- Tools like Metronamica and ArcGIS are fundamental for this kind of studies, since mapping both the information of hazard and exposition can support decision takers and policy makers on where and how to locate and distribute human settlements.
- Residential Land Use is poorly controlled and regulated. It is recommendable that more than one entity controls this, just as in the other uses.



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# Thank you



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